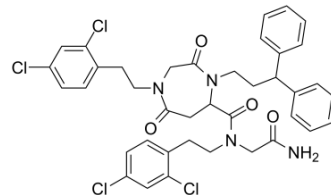


QM31

Cat. No.:	HY-125018
CAS No.:	937735-00-7
Molecular Formula:	C ₃₉ H ₃₈ Cl ₄ N ₄ O ₄
Molecular Weight:	768.56
Target:	Caspase
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	QM31 (SVT016426), a cytoprotective agent, is a selective inhibitor of Apaf-1 . QM31 inhibits the formation of the apoptosome (IC ₅₀ =7.9μM), the caspase activation complex composed by Apaf-1, cytochrome c, dATP and caspase-9. QM31 exerts mitochondrioprotective functions and interferes with the intra-S-phase DNA damage checkpoint ^{[1][2]} .
In Vitro	SVT016426 (0.5-2 μM) inhibits Apaf1-induced activation of caspase activity with an IC ₅₀ of 5 μM in HeLa S100 cells ^[3] .

REFERENCES

- [1]. Mondragón L, et al. A chemical inhibitor of Apaf-1 exerts mitochondrioprotective functions and interferes with the intra-S-phase DNA damage checkpoint. *Apoptosis*. 2009 Feb;14(2):182-90.
- [2]. Orzáez M, et al. Apaf-1 inhibitors protect from unwanted cell death in in vivo models of kidney ischemia and chemotherapy induced ototoxicity. *PLoS One*. 2014 Oct 20;9(10):e110979.
- [3]. Gortat A, et al. Apaf1 inhibition promotes cell recovery from apoptosis. *Protein Cell*. 2015 Nov;6(11):833-43.

Caution: Product has not been fully validated for medical applications. For research use only.

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